The Great Grid Upgrade

North Humber to High Marnham

NHHM-AEC-ONS-REP-0085

North Humber to High Marnham

Volume 6: Environmental Statement

Document 6.12.F4 Environmental Statement Figure 12.4 - Hydrogeology and Hydrogeological Receptors

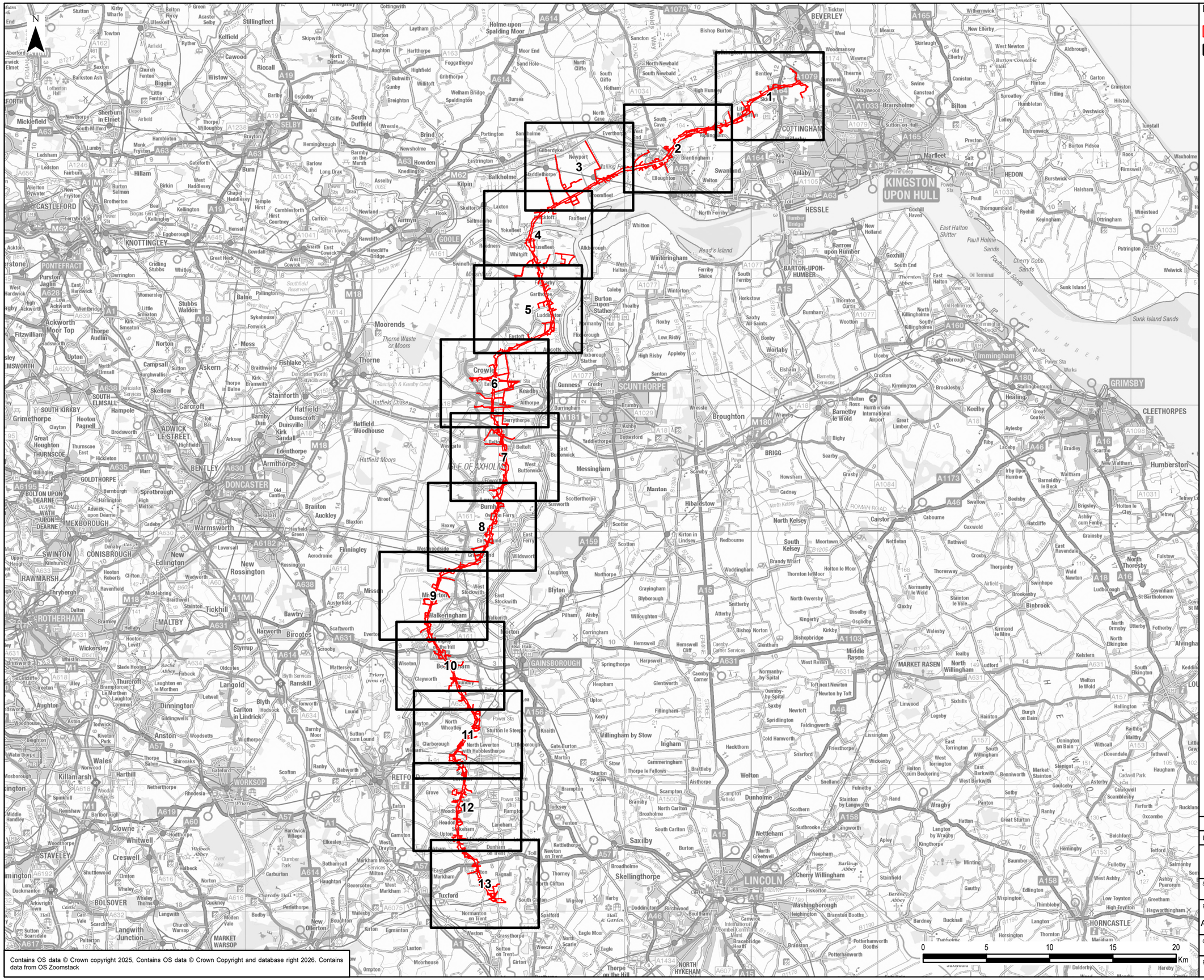
Final Issue A

October 2026

Planning Inspectorate Reference: EN020034

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 Regulation 5(2)(a)

nationalgrid



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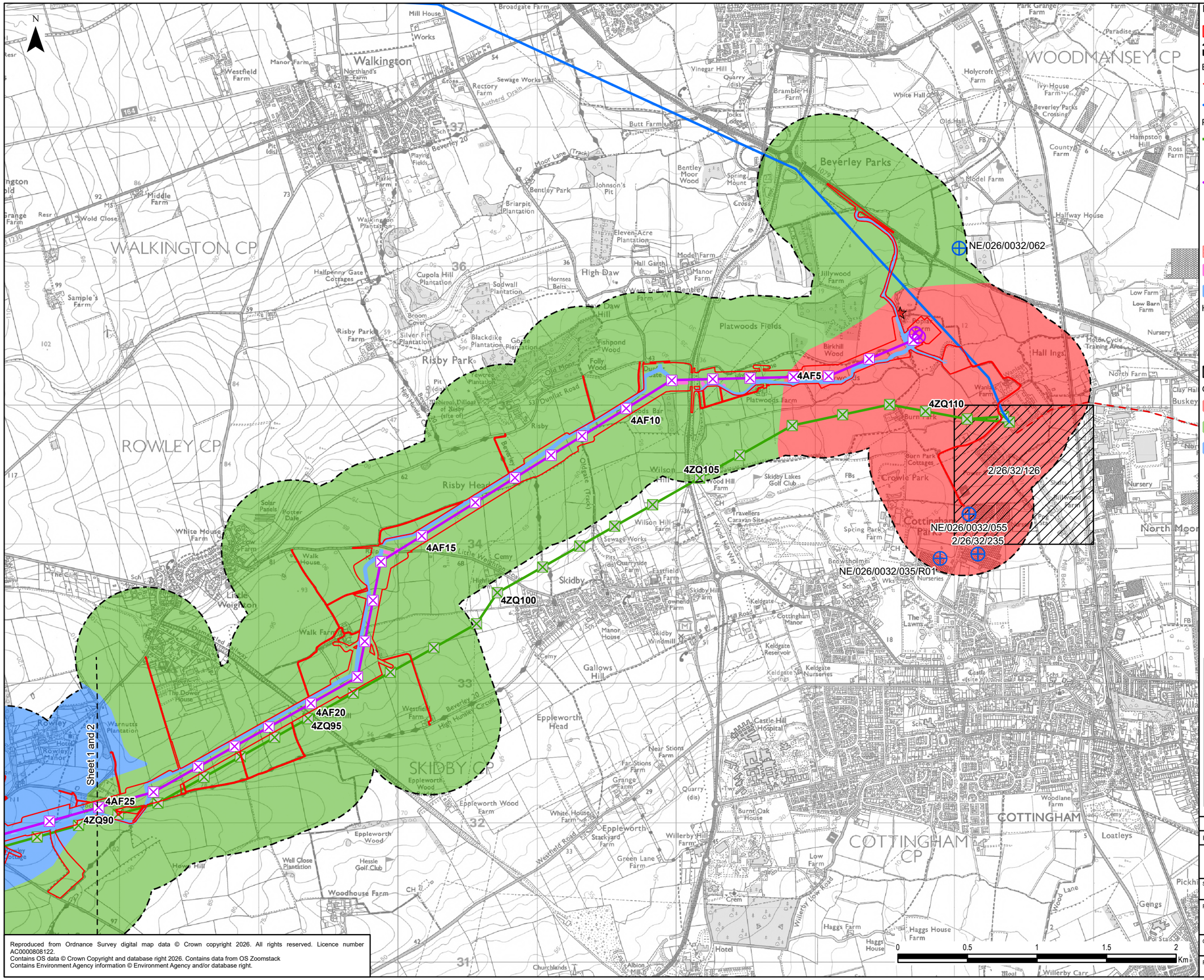
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.4 - HYDROGEOLOGY AND HYDROGEOLOGICAL RECEPTORS KEY PLAN

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Legend

- Order Limits
- 500 m Study Area

Existing Overhead Line

- 275 kV
- 400 kV

Project Design Details

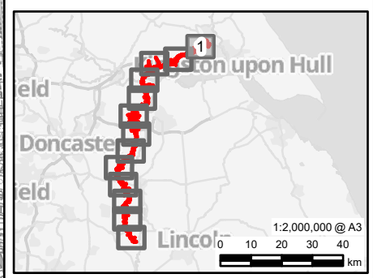
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- Existing Lattice Pylon Not Affected
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Indicative New Gantry
- Construction Compound
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Hydrogeology Data

- Private Water Supply Single Dwelling (East Riding of Yorkshire Council)
- Borehole
- Borehole Location

Groundwater Source Protection Zone

- Zone 1 - Inner Protection Zone
- Zone 2 – Outer Protection Zone
- Zone 3 - Total Catchment



Rev	Date	Description	GIS	Chk	App
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Scheme: NORTH HUMBER TO HIGH MARNHAM

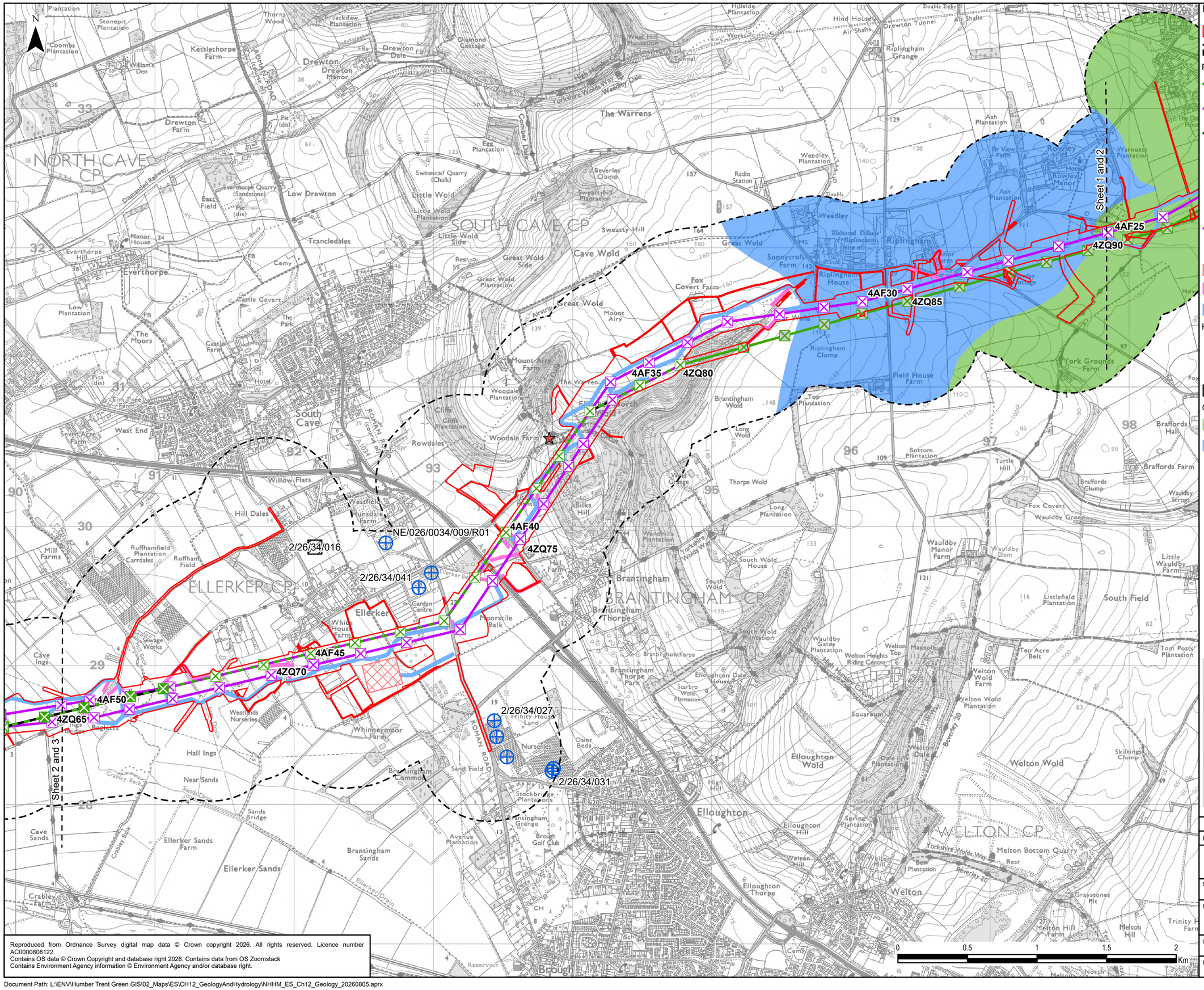
Figure Title: FIGURE 12.4 - HYDROGEOLOGY AND HYDROGEOLOGICAL RECEPTORS

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JG	13/10/2026	DF	13/10/2026	HN	13/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
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0 0.5 1 1.5 2 Km

Legend

- Order Limits
- 500 m Study Area

Project Design Details

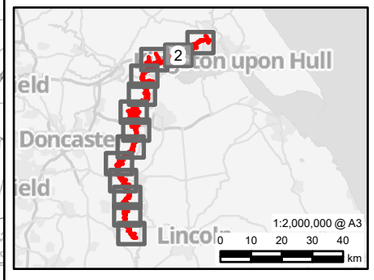
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
- Existing Overhead Line to be Dismantled
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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.4 - HYDROGEOLOGY AND HYDROGEOLOGICAL RECEPTORS

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N

Sheet 2 and 3

Sheet 3 and 4

4AF50
4ZQ65
4AF55
4ZQ60
4AF60
4ZQ55
4AF65
4ZQ50
4AF70

GILBERDYKE CP
NEWPORT CP
BROOMFLEET CP
BLACKTOFT CP

Walling Fen

Newport
Gilberdyke
Staddlethorpe
Broomfleet
Cave Common
North Cave
Sandholme
Bellasize
Warwicks
North Field
Bennetland

M62
A63
B1230

Sand Hill Farm
Welburn House
Lorne Farm
North America
Sandholme Lodge
Trafalgar Plantation
Yokefleet Lodge
Tithe Plantation
Blacktoft Grange
Ing Nook Plantation
Carrhill Farm
Canal Side Farm
Carr Lane Farm
Clubhill
Sandholme Bridge
Fairfield
Cow Bridge
Mill Lane Farm
Sandholme Grange
Mill Farm
Quaker's Farm
East View
Implings
Manor House
Playing Field
Manor Farm
Beech Tree Farm
Cheapsides
Scalby
Eight and Forty
Yorkshire Garden Centre
Newton
Clementhorpe
Talbot Farm
Old House Farm
Gilberdyke Station
Slipper Bridge
Mill Lane Crossing
Lodge Farm
Eastfield Farm
Bellasize Grange
Staddlethorpe Grange
Sober Hill
Sewage Works
Blacktoft House
Staddlethorpe House
Woodfield House
Newstead Farm
Thornton House
Oxmardyke Crossing
Oxmardyke Grange
Marr Grange Fish Farm
Temple Dam Drain
Oxmardyke Marr
Marr House
Sandholme Landing
Glebe Farm
Stoney Carr Farm
North Carr
Seavy Carr Drain
North Carr Drain
Ploughfurrow Drain
Far Drain of Blacktoft Drain
Wallingfen House Farm
Milestone Farm
New Village House
New Village Grange
Nettle Hill
Thorpe Grange
Higham Grange
Baysgarth
Saltmarsh Grange
Elm Tree Farm
Skelton Grange
Cleedike Drain
Cleedike Bridge
Laxton Grange
Grange Farm
Hogdam Pits
Broomfleet House
Northfield House
Broomfleet Station
Prospect Farm
Church Farm
Bridge Farm
The Mount
Outlet Bridge
Pighills
Mill Hill
Broomfleet Hope
Broomfleet Island
Outlet Cloyen
White Ings
Mean High Water
Mean Low Water
Mud and Sand
Humber Lock Farm
Weighton Lock
Faxfleet Main Drain
Faxfleet
Market Weighton Canal
Warping Drain
North Hall
Scalby Warping Drain
Far Drain of Bishopton Drain
Skelfleet Drain
Skelfleet Farm
Jarratt Hills
Jarratt Hills Lane Farm
South Ings
Trawlams
Trawlams Farm
Everthorpe Grange
Everthorpe Hall
HM Prisons
Home Farm
Motel
New Farm
New Cave Common Farm
Seven Acre Farm
Brook Farm
Plantation Farm
Crosslands
Cottage Farms
The Mires
Ryecroft Farm
Dismantled Railway
Low Plantation
Everthorpe Hill
Provence Gate
The Groves
Cave Sands
Cave Crossing
Crabley Farm
Ashfield
West Common Farm
East Common Farm
South Common Farm
Codd Hall
Cave Ings
Mole Lodge
Maple Lodge
Broomfleet Beck
Trans Pennine Trail
Millfield Beck
Seven Acre Beck
Ings Beck
Cave Ings Beck
Far Drain of Bishopton Drain
Ploughfurrow Drain
Seavy Carr Drain
North Carr Drain
New Dike
Tofts
Sch
PO
PH
Works
Pits (dis)
Spr

0 0.5 1 1.5 2 Km

1:2,000,000 @ A3
0 10 20 30 40 km

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Legend

- Order Limits
- 500 m Study Area

Project Design Details

- Existing Overhead Line Not Affected
- Existing Overhead Line to be Dismantled
- Existing Lattice Pylon Not Affected
- Existing Lattice Pylon To Be Modified
- Existing Lattice Pylon To Be Removed
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Construction Compound
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	JG	DF	HN

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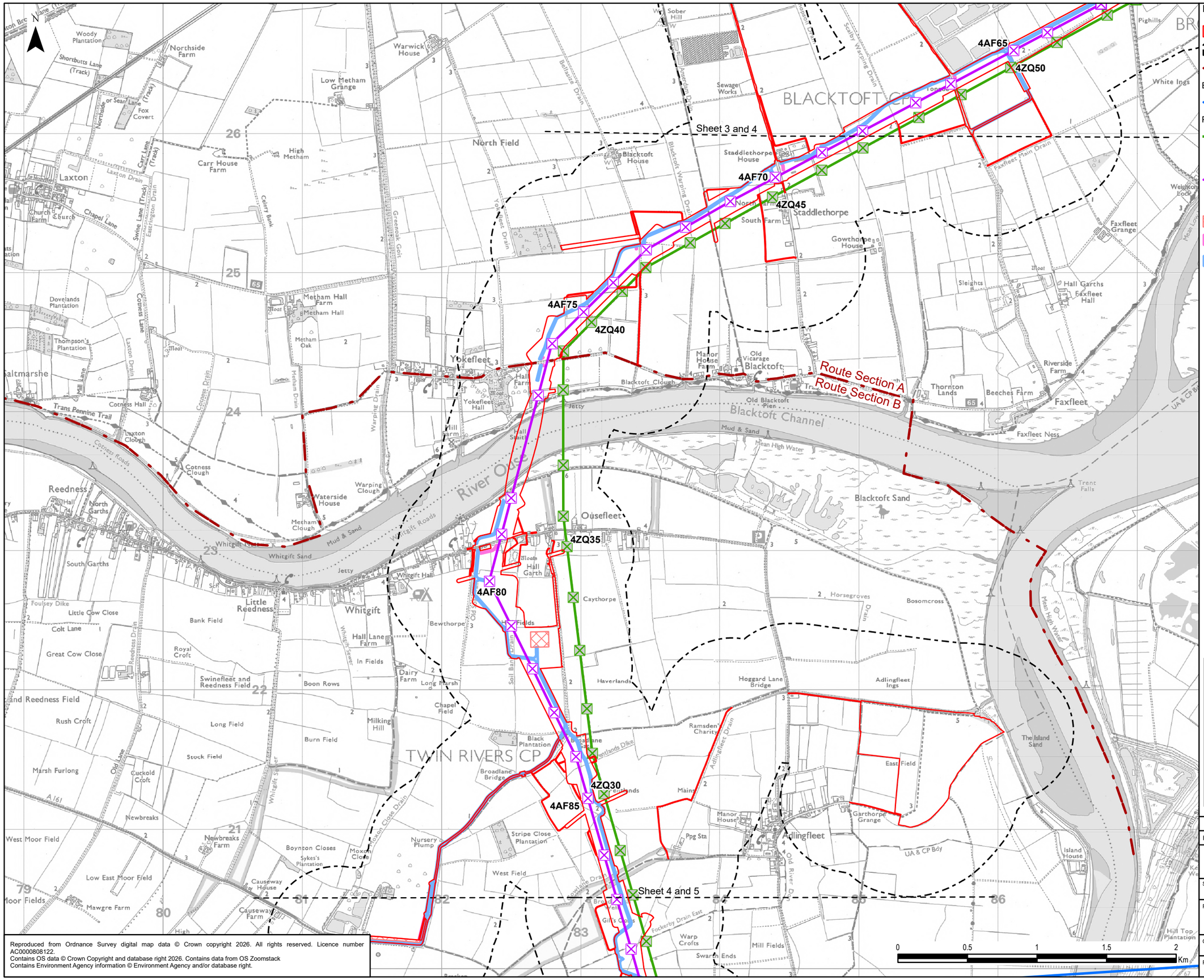
Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 12.4 - HYDROGEOLOGY AND HYDROGEOLOGICAL RECEPTORS

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Legend

- Order Limits
- 500 m Study Area
- Route Section

Existing Overhead Line
- 400 kV

Project Design Details
- Existing Overhead Line Not Affected
- Existing Lattice Pylon Not Affected
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Construction Compound
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone

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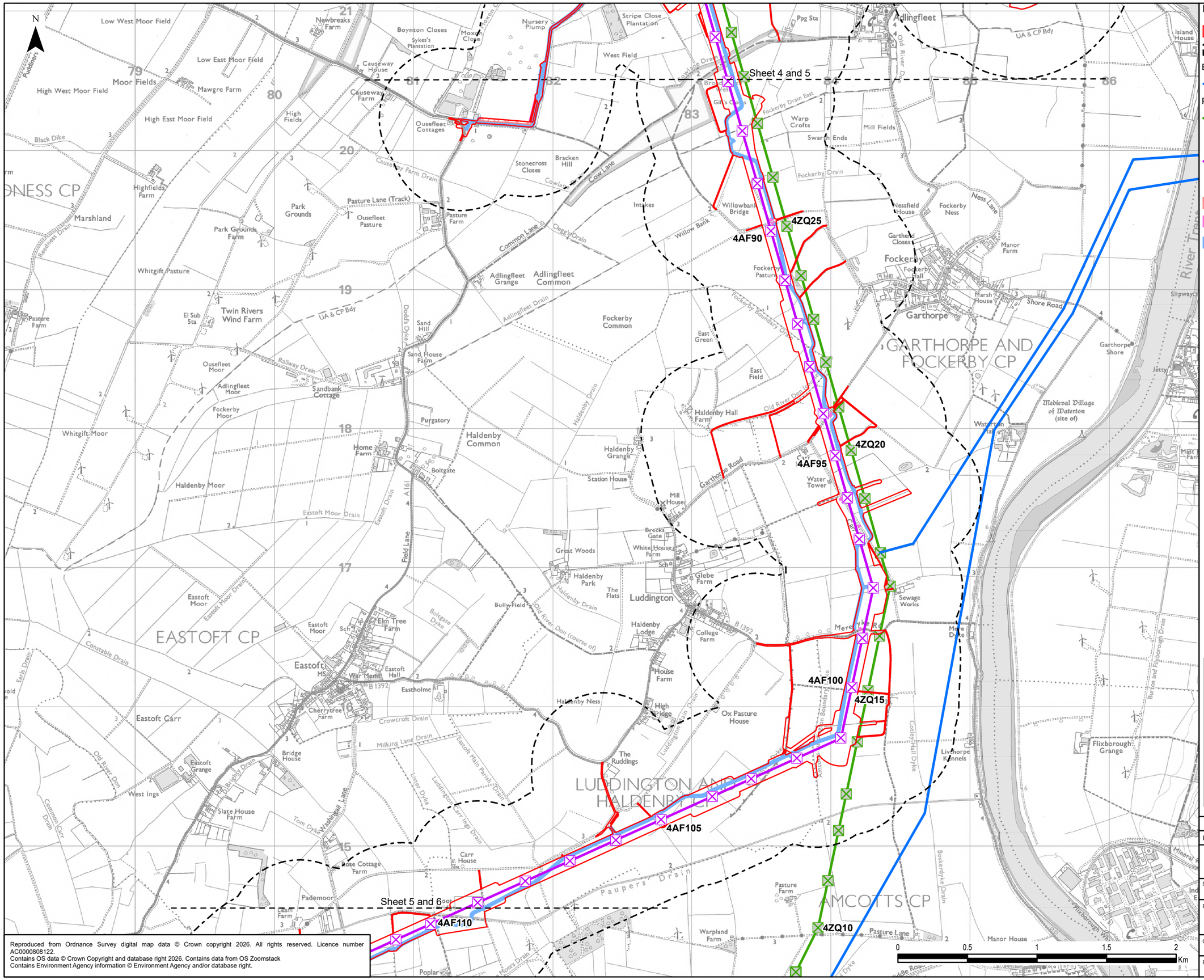
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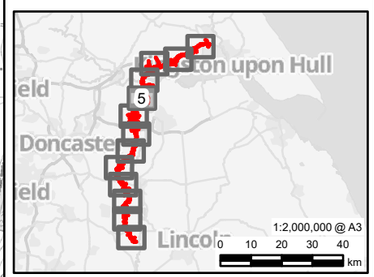


Legend

- Order Limits
- 500 m Study Area

Existing Overhead Line
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Project Design Details
- Existing Overhead Line Not Affected
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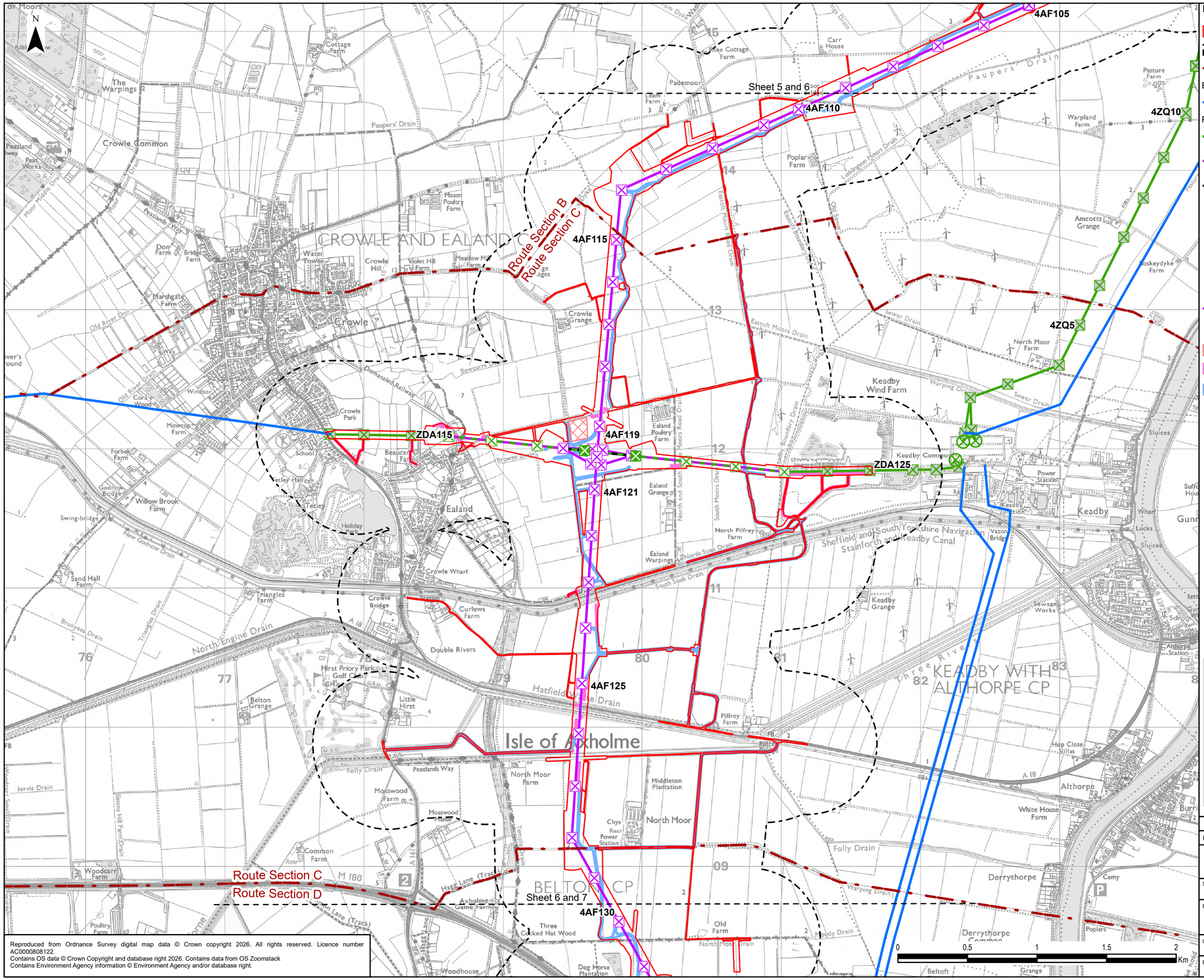
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Legend

- Order Limits
- 500 m Study Area
- Route Section

Existing Overhead Line
- 400 kV

Project Design Details
- Existing Overhead Line Not Affected
- Existing Overhead Line to be Reconductored
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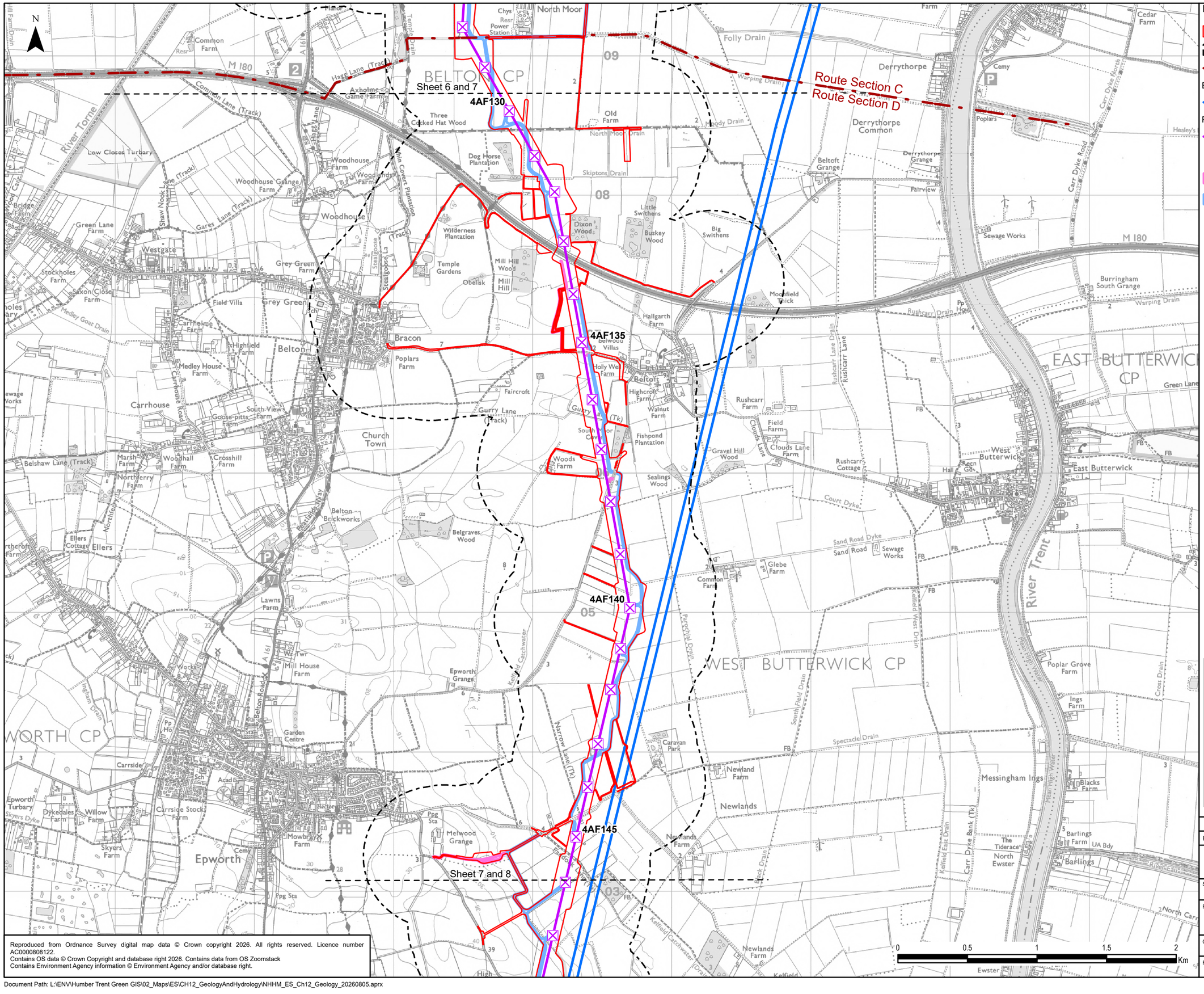
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Legend

- Order Limits
- 500 m Study Area
- Route Section

Existing Overhead Line

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Project Design Details

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- Indicative New Lattice Pylon
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- Proposed Construction Access - Stone

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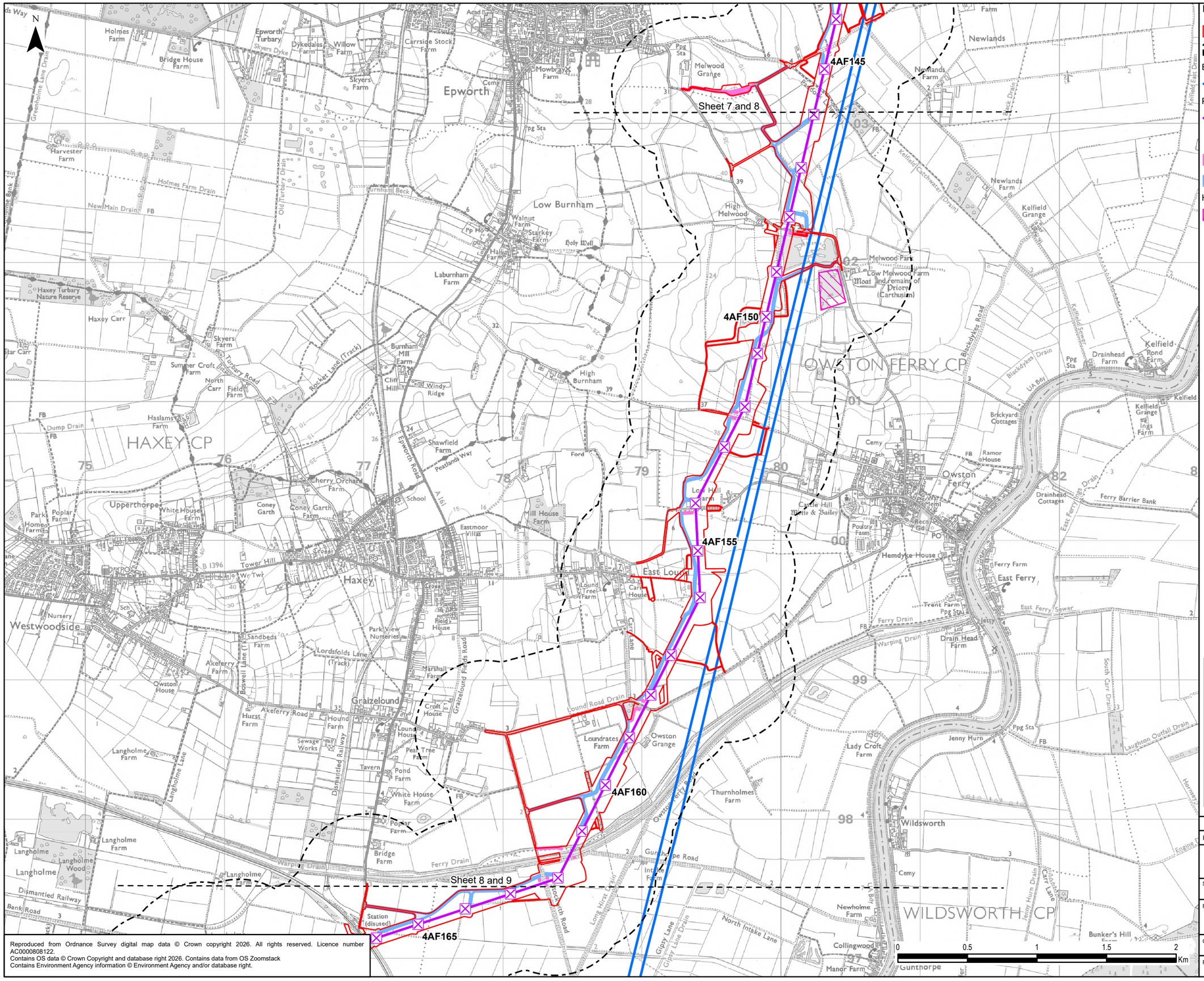
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Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\ES\CH12_GeologyAndHydrology\NHHM_ES_Ch12_Geology_20260805.aprx

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Route Section D
Route Section E

4AF160
4AF165
4AF170
4AF175
4AF180
4AF185

Sheet 8 and 9
Sheet 9 and 10

MISTERTON CP
WALKERINGHAM CP
GRINGLEY ON THE HILL

Broomston
Langholme
Misterton
Misterton Carr
Gringley Carr
West Stockwith
EAST STOCKWITH
WALKERITH

River Idle
River Trent
Dismantled Railway
Tindale Bank Road
Cornley Lane (Track)
Haxey Gate Road
North Carr Road
Cattle Road
Gringley Road
Fox Covert Lane
Tupcroft Road
Fountain Hill Road
Cave's Lane
Ings Road
Cross Lane
Levels Lane
Dales Lane
Soss Lane
Cuckoo Way
Gravelholes Lane
Stockwith Road
Marsh Road
Ferry Drain
Mother Drain
Bycarrs Dyke
Cow Pasture Drain
North Carr Drain
Misterton Middle Drain
Carr Road West Drain
Carr Road East Drain
Taylor Drain
Portland Drain
Polly Bell Bank
Cross Drain
Tindale Bank Drain
Long Hirst Drain
Warping Drain
Holmes Drain
Beckleigh

Misson Carr Nature Reserve
Gringley Pumping Station
Sewage Works
Station (disused)
Haxey Gate Bridge
Tindale Bank Gatehouse
Mother Drain Bridge
Cooper's Bridge
Wharf Bridge
Swallow Bridge
Lock
Basin Bridge
Marina
Hodson Bridge
Smith's Bridge
Shaw Bridge
Shaw Lock
Middle Bridge
Woodlands Footbridge
Recn Gd
Sch
PO
Lib
Factory
Church
Chapel
Cemy
Mill Lane
Homefield
Glebe Farm
Highfield House
Highfield Farm
Highfield Farm Cottage
Church End
Cross
Holmes Villa
Station House
Sewage Works
Point Farm
Lyne House Farm
Line Croft Farm
Newells Terrace
Willow Bank Farm
Mount Pleasant Farm
Shirley Dene
North Carr Crossing
North Carr Cottages
Misterton Soss
Low Farm
Haxey Gate Bridge
Debdhill Farm
Debdhill Road (Track)
New Cemetery
Red House
White House Farm
Tavern
Pond Farm
Poplar Farm
Bridge Farm
Langholme Farm
Langholme Farm Cottage
Langholme Wood
Langholme Manor
Dismantled Railway
Sandhill Cottage
Fountain Farm
Poplar Farm
Little Broomston Farm
Middle Broomston Farm
Big Broomston Farm
Haxey Grange
Cornley Farm
Cornley Carr Farm
Cornley
South Carr Farm
North Carr Farm
Misterton Carr Farm
Idle Stop
Fox Covert
Gringley Pumping Station
Carr Farm
Oatlands Farm
Gringley Carr
Ellicar House
Ellicar Farm
Willow Farm
Woodlands Farm
Carrholm Farm
Middle Bridge Farm
Dunstan Farm
Cattle Farm
Misterton Carr
Sandholes Lane (Track)
Hundreds Lane
Gringley and Misterton Boundary Drain
Duke Drain
Mother Drain
Idle Bank
Holly Drain
Snow Sewer
Langholme Drain
Dismantled Railway
Ouse
Gunness Int Fm
Gipsy Dyke
Old Enclosure Dyke
Trent Valley Way
Mean High Water
Carrfield Farm
Moor End Farm
Pear Tree Farm
Shepherd Yard
West Moor Farm
West Moor
Spr
The Moor
Grange Farm
Walkeringham
South Moor Farm
Manor Cottage
Manor Farm
Fountain Hill Farm
Fountain Hill
Gringley Road Farm
Leys Farm
Highfield Farm Cottage
Highfield Farm
Carrholm Farm
Middle Bridge Farm
Sewage Works
Dunstan Farm
Woodlands Farm
Willow Farm
Ellicar House
Ellicar Farm
Oatlands Farm
Carr Farm
Gringley Carr
Misterton Carr
Cattle Farm
Fox Covert
Gringley Pumping Station
Sandholes Lane (Track)
Hundreds Lane
Gringley and Misterton Boundary Drain
Duke Drain
Polly Bell Bank
Carr Road West Drain
Carr Road East Drain
Taylor Drain
Portland Drain
Cross Lane
Ings Road
Carr Road
Misterton Middle Drain
Cornley Road
Cornley Lane (Track)
Haxey Gate Road
Debdhill Road (Track)
Tindale Bank Road
Dismantled Railway
Cattle Road
Gringley Road
Fox Covert Lane
Tupcroft Road
Fountain Hill Road
Cave's Lane
Ings Road
Cross Lane
Levels Lane
Dales Lane
Soss Lane
Cuckoo Way
Gravelholes Lane
Stockwith Road
Marsh Road
Ferry Drain
Mother Drain
Bycarrs Dyke
Cow Pasture Drain
North Carr Drain
Misterton Middle Drain
Carr Road West Drain
Carr Road East Drain
Taylor Drain
Portland Drain
Polly Bell Bank
Cross Drain
Tindale Bank Drain
Long Hirst Drain
Warping Drain
Holmes Drain
Beckleigh
Trent Valley Way
Mean High Water
Old Enclosure Dyke
Gipsy Dyke
Ouse
Gunness Int Fm
Dismantled Railway
Langholme Drain
Holly Drain
Snow Sewer
Idle Bank
South Idle Drain
Misterton Carr Nature Reserve
Gringley Pumping Station
Sewage Works
Station (disused)
Haxey Gate Bridge
Tindale Bank Gatehouse
Mother Drain Bridge
Cooper's Bridge
Wharf Bridge
Swallow Bridge
Lock
Basin Bridge
Marina
Hodson Bridge
Smith's Bridge
Shaw Bridge
Shaw Lock
Middle Bridge
Woodlands Footbridge
Recn Gd
Sch
PO
Lib
Factory
Church
Chapel
Cemy
Mill Lane
Homefield
Glebe Farm
Highfield House
Highfield Farm
Highfield Farm Cottage
Church End
Cross
Holmes Villa
Station House
Sewage Works
Point Farm
Lyne House Farm
Line Croft Farm
Newells Terrace
Willow Bank Farm
Mount Pleasant Farm
Shirley Dene
North Carr Crossing
North Carr Cottages
Misterton Soss
Low Farm
Haxey Gate Bridge
Debdhill Farm
Debdhill Road (Track)
New Cemetery
Red House
White House Farm
Tavern
Pond Farm
Poplar Farm
Bridge Farm
Langholme Farm
Langholme Farm Cottage
Langholme Wood
Langholme Manor
Dismantled Railway
Sandhill Cottage
Fountain Farm
Poplar Farm
Little Broomston Farm
Middle Broomston Farm
Big Broomston Farm
Haxey Grange
Cornley Farm
Cornley Carr Farm
Cornley
South Carr Farm
North Carr Farm
Misterton Carr Farm
Idle Stop
Fox Covert
Gringley Pumping Station
Carr Farm
Oatlands Farm
Gringley Carr
Ellicar House
Ellicar Farm
Willow Farm
Woodlands Farm
Carrholm Farm
Middle Bridge Farm
Dunstan Farm
Cattle Farm
Misterton Carr
Sandholes Lane (Track)
Hundreds Lane
Gringley and Misterton Boundary Drain
Duke Drain
Mother Drain
Idle Bank
Holly Drain
Snow Sewer
Langholme Drain
Dismantled Railway
Ouse
Gunness Int Fm
Gipsy Dyke
Old Enclosure Dyke
Trent Valley Way
Mean High Water
Carrfield Farm
Moor End Farm
Pear Tree Farm
Shepherd Yard
West Moor Farm
West Moor
Spr
The Moor
Grange Farm
Walkeringham
South Moor Farm
Manor Cottage
Manor Farm
Fountain Hill Farm
Fountain Hill
Gringley Road Farm
Leys Farm
Highfield Farm Cottage
Highfield Farm
Carrholm Farm
Middle Bridge Farm
Sewage Works
Dunstan Farm
Woodlands Farm
Willow Farm
Ellicar House
Ellicar Farm
Oatlands Farm
Carr Farm
Gringley Carr
Misterton Carr
Cattle Farm
Fox Covert
Gringley Pumping Station
Sandholes Lane (Track)
Hundreds Lane
Gringley and Misterton Boundary Drain
Duke Drain
Polly Bell Bank
Carr Road West Drain
Carr Road East Drain
Taylor Drain
Portland Drain
Cross Lane
Ings Road
Carr Road
Misterton Middle Drain
Cornley Road
Cornley Lane (Track)
Haxey Gate Road
Debdhill Road (Track)
Tindale Bank Road
Dismantled Railway
Cattle Road
Gringley Road
Fox Covert Lane
Tupcroft Road
Fountain Hill Road
Cave's Lane
Ings Road
Cross Lane
Levels Lane
Dales Lane
Soss Lane
Cuckoo Way
Gravelholes Lane
Stockwith Road
Marsh Road
Ferry Drain
Mother Drain
Bycarrs Dyke
Cow Pasture Drain
North Carr Drain
Misterton Middle Drain
Carr Road West Drain
Carr Road East Drain
Taylor Drain
Portland Drain
Polly Bell Bank
Cross Drain
Tindale Bank Drain
Long Hirst Drain
Warping Drain
Holmes Drain
Beckleigh
Trent Valley Way
Mean High Water
Old Enclosure Dyke
Gipsy Dyke
Ouse
Gunness Int Fm

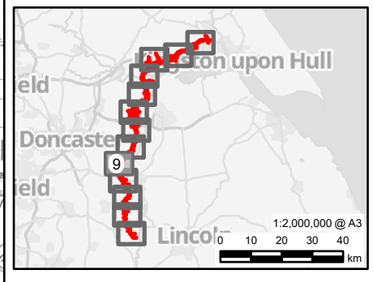
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Legend

- Order Limits
- 500 m Study Area
- Route Section

Existing Overhead Line
- 400 kV

Project Design Details
- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Construction Compound
- Proposed Construction Access - Panel
- Proposed Construction Access - Stone



Rev	Date	Description	GIS	Chk	App
0	13/10/2026	ENVIRONMENTAL STATEMENT	JG	DF	HN

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

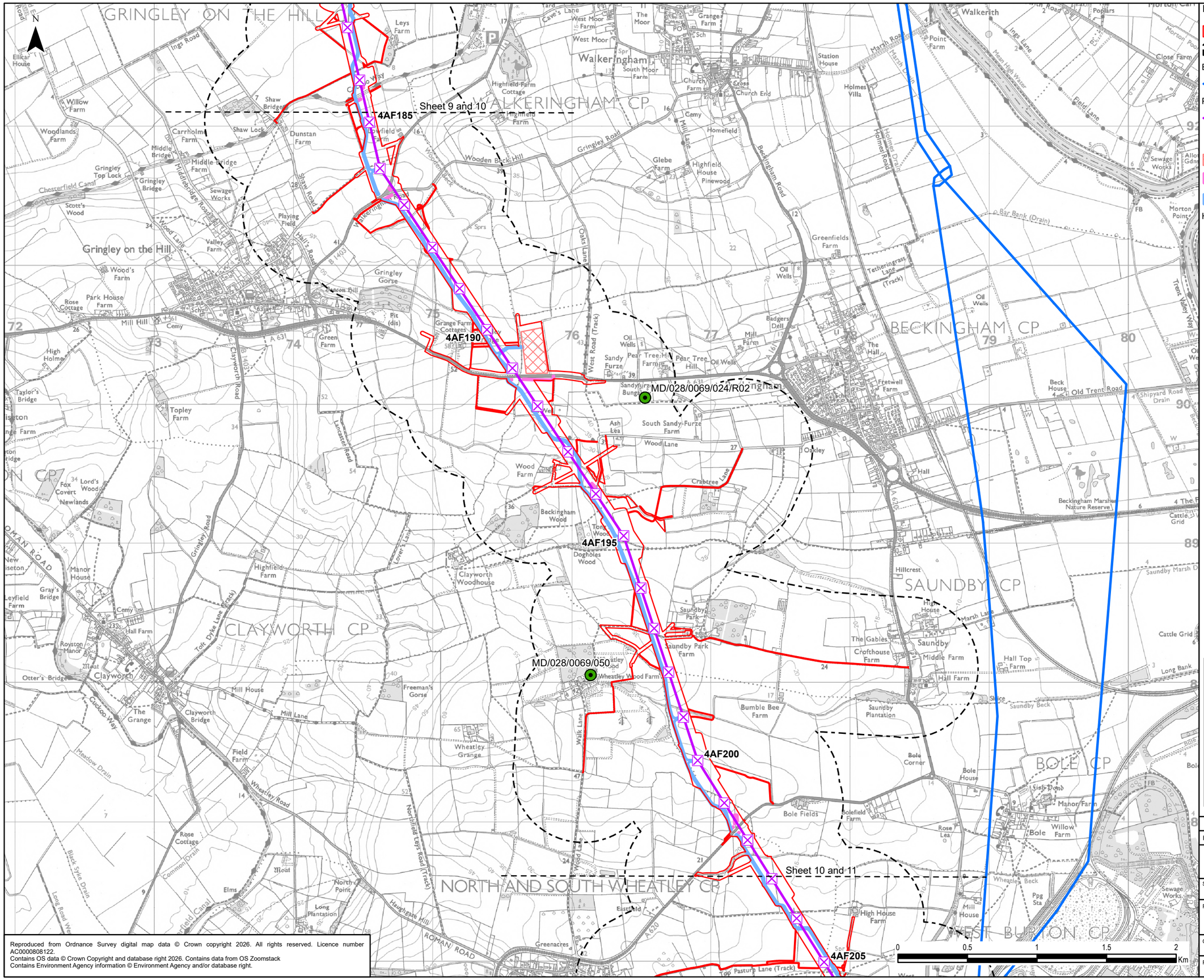
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JG	13/10/2026	DF	13/10/2026	HN	13/10/2026

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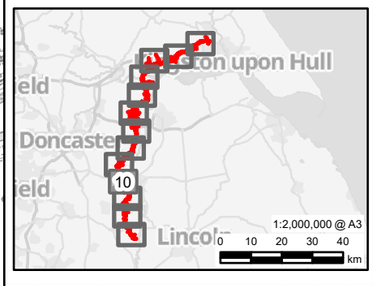
Legend

- Order Limits
- 500 m Study Area

Existing Overhead Line
- 400 kV

Project Design Details
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- Construction Compound
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Hydrogeology Data
- Abstraction Licence Point



Rev	Date	Description			
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nationalgrid

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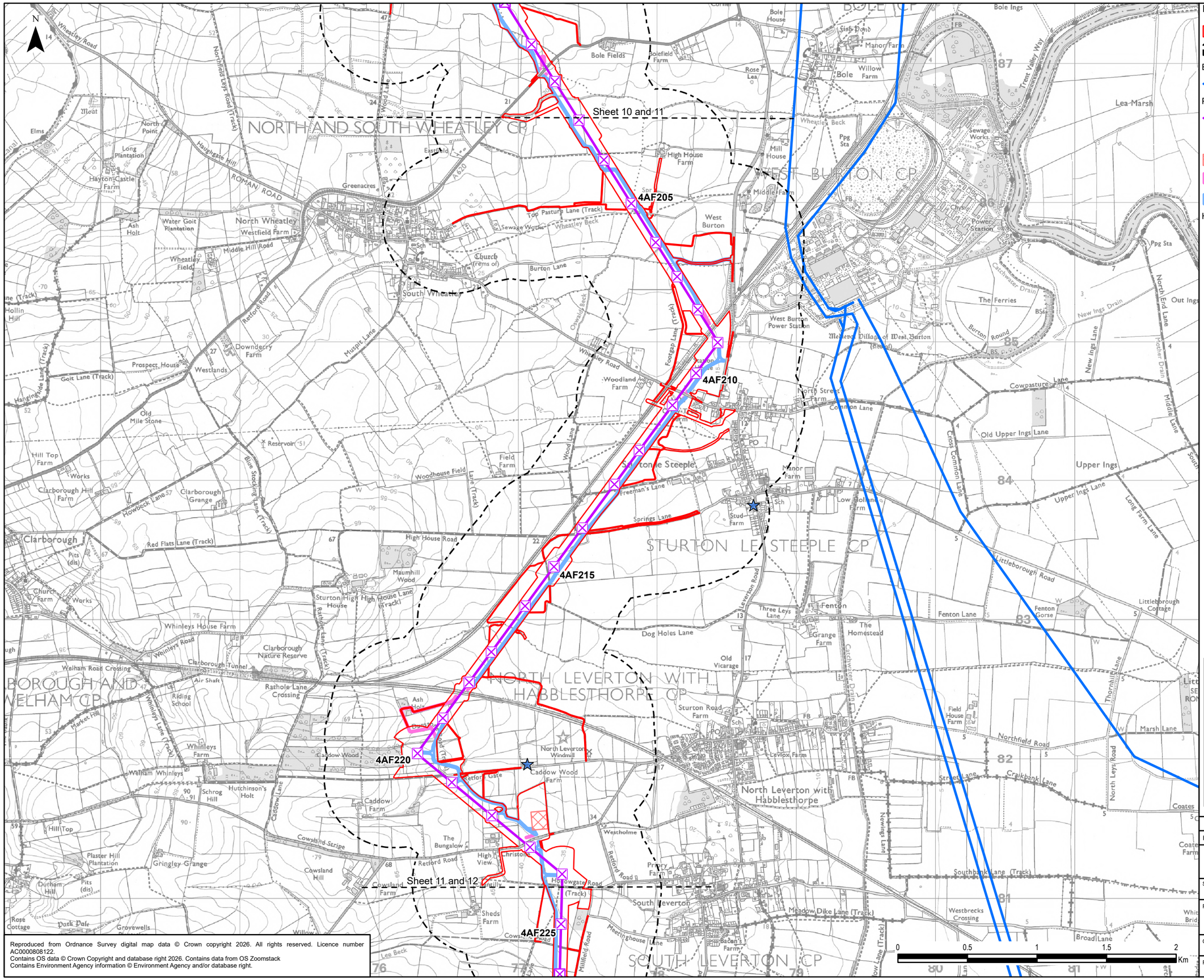
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Legend

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Hydrogeology Data
- Private Water Supply (Bassetlaw District Council)

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Sheet 11 and 12

Sheet 12 and 13

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4AF230

4AF235

4AF240

MD/028/0069/046

GROVE CP

TRESWELL CP

SOUTH LEVERTON CP

RAMPTON AND WOODBECK CP

HEADON CUM UPTON CP

STOKEHAM CP

EAST DRAYTON CP

LANEHAM CP

DUNHAM-ON-TRE

Woodbeck

East Drayton

Rampton

Laneham

Treswell

Stokeham

Upton

Headon

Nether Headon

Retford Road

Cowsland Stripe

Grove Road

Lee Beck

Meeting House Lane

Rampton Lane

Humber Meadow Lane (Track)

Westbrecks Lane

Broad Lane

Cottam Road

Rampton Road

Helenship Lane

Salms Lane

Wranglands Lane

Thorpe Street

Brigg Lane (Track)

Upton Road

Hoo Lane (Track)

Chequers Lane

Trent Valley Way

Cottam Power Station

Rampton Hospital

Sewage Works

Gringley Grange

Hill Top

Plaster Hill Plantation

Durham Hill

Pits (dis)

Rose Cottage

Dark Dale

Grovewells Plantation

Kirk Hill Earthwork

Castle Hill Wood

Reservoir

Grove Park

Grove Moor Farm

Willow Cottages

Cowsland Farm

Cowsland Hill

The Bungalow

High View

Christon

Westholme

Priory Farm

Sheds Farm

Bacon Farm

Onslow House

Springfield

Woodhouse Farm

Wood House

Treswell Wood

Grove Grange Farm

Rectory Plantation

Crow Holt

Grovefield Stripe

Lodge Field Clump

Darlton Holt

Lady Wood

Stanhope Farm

Northfield Farm

Woodbeck Cottage

Bottom Woodbeck Farm

Mill Hill Farm

Mill Mound

Headon Camp Industrial Estate

Headon Park

Schoolhouse Plantation

Headon Wood

Headon Manor Farm

Shortwood

Askham Field

Hawksley Farm

Prospect Farm

Beast Wood

Field Farm

North Green Bridge

Manor House Farm

Beardsall Farm

Otters Farm

Hardings Farm

Fox Covert Farm

Laneham Fox Covert

Laneham Field Farm

The Limes

Mill House

Holly Folly Farm

Rushmoor Farm

Maltkilns

Holiday Park

Trentfield Farm

Broading Farm

Sewage Works

Greenside Farm

East End Farm

Horse Farm

Haig Plantation

Rampton Thorns

Manor House

Sundown Adventure Land

Turn-a-beck

Westbrecks Crossing

Westbrecks Farm

Southbank Lane (Track)

Meadow Dike Lane (Track)

Overcoat Lane

Church Laneham

Manor Farm

Moat

Fleet Plantation

Fleet Bridge

Shortlands Road

Nightingale

Floss H

Coate

Far

Ppg

Sch

FB

FBs

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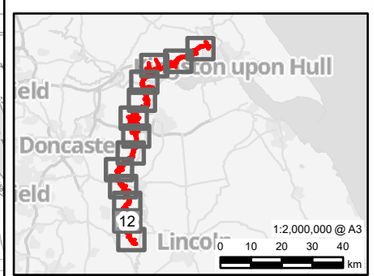
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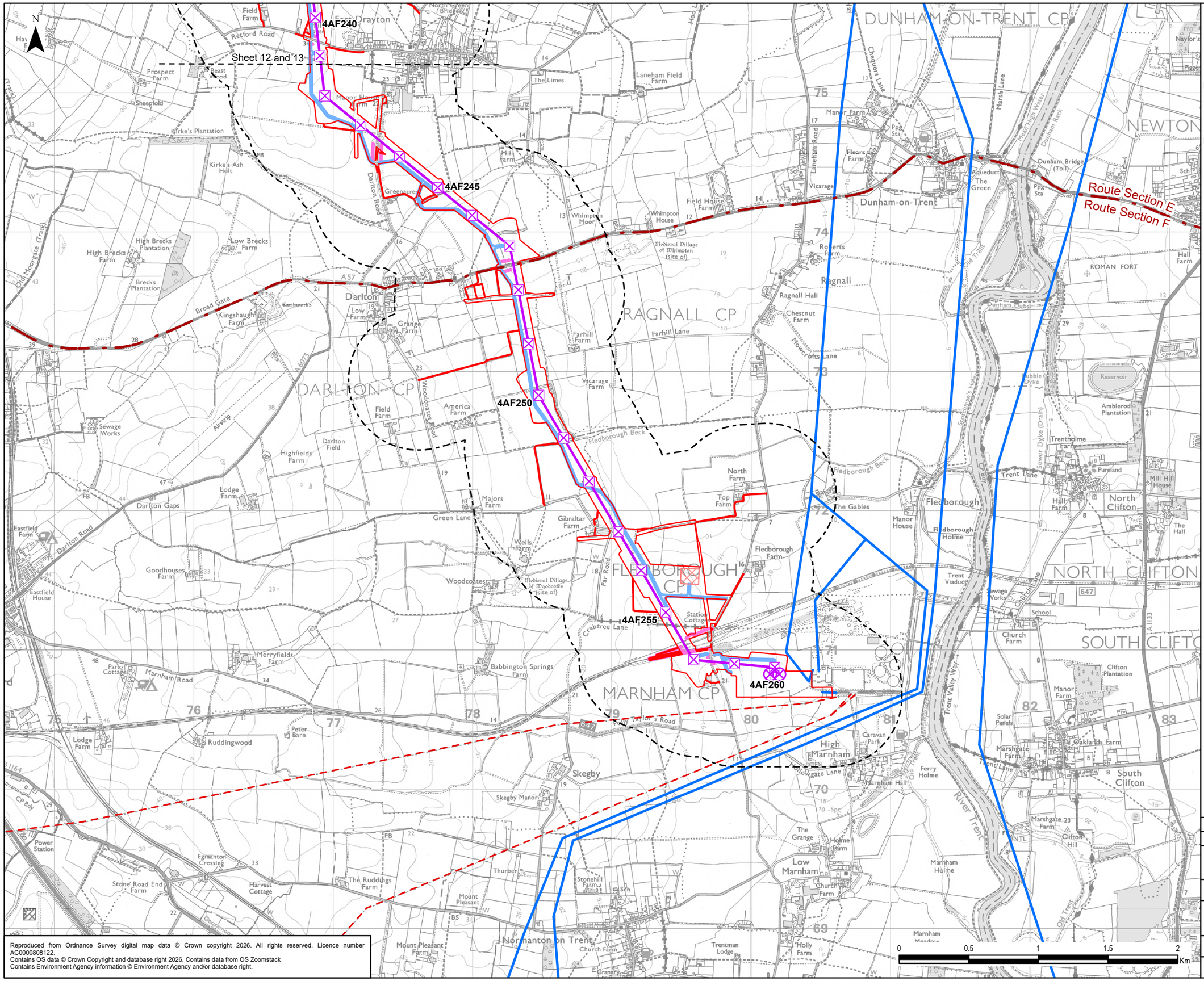
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4AF240
4AF245
4AF250
4AF255
4AF260
Sheet 12 and 13
Route Section E
Route Section F
DUNHAM-ON-TRENT CP
RAGNALL CP
DARLTON CP
FLEDBOROUGH CP
MARNHAM CP
NEWTON
NORTH CLIFTON
SOUTH CLIFTON
East Drayton
Darlton
Ragnall
Dunham-on-Trent
Fledborough
High Marnham
Low Marnham
Normanton on Trent
Skegby
Ruddingwood
Darlton Gaps
Goodhouses Farm
Merryfields Farm
Babbington Springs Farm
Whimpton House
Medieval Village of Whimpton (site of)
Medieval Village of Woodcotes (site of)
Woodcotes
Laneham Field Farm
Mill Farm
Field House Farm
Manor Farm
Flears Farm
Roberts Farm
Chestnut Farm
Farhill Farm
Vicarage Farm
Grange Farm
Low Farm
Kingshaugh Farm
High Brecks Farm
Low Brecks Farm
Kirke's Ash Holt
Kirke's Plantation
Prospect Farm
Sheepfold
Greenacres
Darlton Road
Old Moorgate (Track)
Broad Gate
Earthworks
Retford Road
Field Farm
Beast Wood
Moor Hall
The Limes
Chequers Lane
Laneham Road
Marsh Lane
Dunham Bridge (Toll)
Aqueduct
The Green
Dunham Dyke
Old Trent
Reservoir
Ragnall Hall
Hall Farm
ROMAN FORT
Farhill Lane
Mowcroft Lane
Woodcotes Road
Fledborough Beck
Scotsman's Hole
Bubble Dyke
Amberod Plantation
Trentholme Farm
Pureland
Mill Hill House
North Clifton
The Hall
Trent Lane
Sewer Dyke (Drain)
Hall Farm
Manor House
Fledborough Holme
The Gables
North Farm
Top Farm
Majors Farm
Gibraltar Farm
Wells Farm
Fledborough Farm
Far Road
Crabtree Lane
Station Cottage
Trent Viaduct
Sewage Works
Church Farm
Clifton Plantation
Manor Farm
Solar Panels
Oaklands Farm
Marshgate Farm
Clifton Hill
Marnham Hall
Caravan Park
Ferry Holme
River Trent
Trent Valley Way
Marnham Holme
Marnham Meadow
Holly Farm
Trentman Lodge
Church Farm
Granary
Stonehill Farm
The Grange
Home Farm
Thurber
Mount Pleasant
Mount Pleasant Farm
The Ruddings Farm
Harvest Cottage
Stone Road End Farm
Egmanton Crossing
Power Station
Sewage Works
Airstrip
Highfields Farm
Darlton Field
Lodge Farm
Eastfield Farm
Eastfield House
Parks Cottage
Marnham Road
Peter Barn
Skegby Manor
Polly Taylor's Road
Hollowgate Lane
Spr
Old Trent
A57
A1133
A6075
A1164
B6387
CP Bdy
FB
BS
Sch
Hall
Ppg Sta
Pigeons
Naylor's
Hall Farm
Farm
Lodge
Grange
Vicarage
Manor
Mill
Hall
Sch
Ppg Sta
Aqueduct
Reservoir
Church
Caravan Park
Solar Panels
Spr